Bossier Parish Community College
Master Syllabus

Course Prefix and Number: BLGY 224L **Credit Hours:** 1

Course Title: Human Anatomy Laboratory

Course Prerequisites: Concurrent or previous credit in BLGY 224

Textbook: Division of Science and Allied Health; BLGY 224L: Lab Manual

Course Description:
Laboratory exercises to reinforce lecture topics through the use of microscopes, microscope slides, posters, diagrams and models.

Learning Outcomes:

At the end of this course, the student will

A. demonstrate a basic knowledge of the use and care of a light microscope; and
B. demonstrate knowledge of the location and structure of organs, systems, tissues and cells of the human body.

To achieve the learning outcomes, the student will

1. identify the parts of the light microscope and the function of each part. (A)
2. demonstrate the ability to focus the microscope. (A)
3. demonstrate the ability to accurately draw images viewed through the microscope. (A)
4. identify cells with the light microscope. (A,B)
5. identify components of the integumentary system. (B)
6. identify the layers of the skin with the light microscope. (A,B)
7. classify bones by shape. (B)
8. identify and label compact and spongy bone tissue using a light microscope and models. (A,B)
9. identify the parts of a long bone. (B)
10. name the bones and features of the adult and fetal skulls. (B)
11. identify the bones and features of the axial and appendicular skeleton. (B)
12. identify a model of a typical synovial joint. (B)
13. compare the three types of muscle tissue, using the light microscope. (A,B)
14. identify major muscles on a lab model. (B)
15. identify nerve tissue with the microscope. (A,B)
16. identify the parts of a neuron on a lab model. (B)
17. identify a cross-section of the spinal cord using the light microscope and lab models. (A,B)
18. identify features of the brain on lab models. (B)

19. identify structures of the ear on a lab model. (B)
20. identify structures of the eye on a lab model. (B)
21. identify blood components using a light microscope. (A,B)
22. identify blood cells using lab models. (B)
23. compare the structure of an artery and vein using the light microscope. (A,B)
24. identify the structures of the heart on lab models. (B)
25. identify the features of the upper respiratory system on a lab model. (B)
26. identify the parts of a model of a larynx. (B)
27. identify the structures of the lower respiratory system on a lab model. (B)
28. identify lung tissue with the light microscope. (A,B)
29. identify the major digestive organs on the model. (B)
30. identify the organs of the urinary system on lab models. (B)
31. identify the parts of a nephron on a lab model. (B)
32. identify a model of a sectioned kidney. (B)
33. identify the structures of the male and female reproductive systems on lab models. (B)

Course Requirements

- minimum score of 60% on microscope test
- competency in basic use of the microscope
- minimum average score of 60% on all lab practical tests

Course Grading Scale:

A- 90% or more of total possible points and a minimum of 60% on the microscope test and demonstrated ability to utilize the light microscope and a minimum average score of 60% on lab practical tests

B- 80% or more of total possible points and a minimum of 60% on the microscope test and demonstrated ability to utilize the light microscope and a minimum average score of 60% on lab practical tests

C- 70% or more of total possible points and a minimum of 60% on the microscope test and demonstrated ability to utilize the light microscope and a minimum average score of 60% on lab practical tests

D- 60% or more of total possible points and a minimum of 60% on the microscope test and demonstrated ability to utilize the light microscope and a minimum average score of 60% on lab practical tests

F- less than 60% of total possible points or less than 60% on the microscope test or failure to demonstrate the ability to utilize the light microscope or less than 60% average on lab practical tests

Reviewed by V. Leggett/ May 2009